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(54) ERROR CONTROL SYSTEM, DEVICE, TRANSMISSION AND RECEPTION CONTROLLER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a control system that can be controlled by a single coder and a single decoder and can realize various error correction capabilities, to obtain an error controller and a transmission and reception controller adopting the error control system and to obtain an optimum transmission capability in response to a fluctuation state of a transmission line.

SOLUTION: A transmitter side is configured so that an information block of each packet has a common part between an information block of a preceding packet and an information block of a succeeding packet and encodes the information block with an error correction code and transmits the coded block. Furthermore, the size of the common part, is changed depending on a state of a transmission line. On the other hand, a receiver side applies error correction to the information block with a decoding and error correction code function (S110, S120) and when decoding is failed, the common part of the information block is replaced with that of the preceding packet and the information block whose common part is replaced is again decoded and error-corrected (S150, S160).

